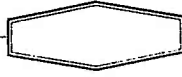


ASH GROVE CEMENT COMPANY



"WESTERN REGION"

February 29, 1996

Ms. Elizabeth Gilpin,
Puget Sound Air Pollution Control Agency
110 Union Street, Suite 500 Seattle, WA. 98101-2038

Re: Notice of Violation # 4-2346

Dear Ms. Gilpin:

The above NOV require a response stating the corrective actions taken to achieve compliance.

Following receipt of the analysis showing the panel siding was indeed transite, the material was immediately covered and labeled. AC and S Inc, an approved asbestos contractor was hired on 02/12 to remove the material from the plant site and filed a notification for material removal with PSAPCA on 2/13/96. The material was removed by AC and S Inc for disposal on 02/26/96 following PSAPCA approval of the contractors work plan.

Please let me know if you have any further question.

Yours truly,

Gerald J. Brown
Manager Safety and Environment

Copy: Henrik Voldbaek
Nate Fernow
Doug Hale

AGCS2M001018

RECEIVED

PUGET SOUND AIR POLLUTION CONTROL AGENCY

Case No. 9600650
 Cert. Mail No. 263547342

110 Union Street, Suite 500, Seattle, Washington 98101-2238
 206-343-8800 / 1-800-552-3565 / Fax 206-343-7522

NOTICE OF VIOLATION

FEB 21 1996
 AGCS-2M001019 4-2346

Date of Violation: Feb 9, 1996 at 9:25 A.m.

Name <u>Ash Grove Cement Co.</u>		Responsible Person, Title <u>Berry Brown Manager</u>	
Location of Violation (Address) <u>3801 E. Marginal Wy So.</u>		City <u>Seattle</u>	Zip <u>98134</u>
Mailing Address <u>as above</u>		City, State <u>Seattle, WA.</u>	Phone <u>(206) 623-5596</u>

DID UNLAWFULLY CAUSE OR ALLOW VIOLATION OF:

REGULATION III-ARTICLE 4: ASBESTOS CONTROL STANDARDS OF THE PUGET SOUND AIR POLLUTION CONTROL AGENCY (PSAPCA) FOR:

- ☐ Section 4.01(a)(1) Failure to obtain written approval before working on an asbestos project or demolition.
- ☐ Section 4.01(d) Deviating from the information contained in a written application without receiving PSAPCA approval.
- ☐ Section 4.02(a) Failure to conduct an asbestos survey before performing asbestos project work.
- ☐ Section 4.02(a)(1) Failure to have Certified Asbestos Workers and an on-site Certified Asbestos Supervisor conduct the asbestos project.
- ☐ Section 4.02(a)(2) Failure to keep Asbestos Containing Materials (ACM) adequately wet during removal.
- ☐ Section 4.02(a)(4)(A) Failure to keep ACM removed or fallen off a component adequately wet until collected for disposal.
- ☐ Section 4.02(a)(4)(B) Failure to collect for disposal at the end of each working day all ACM removed or fallen off from a component.
- ☐ Section 4.02(a)(4)(C) Failure to contain all ACM removed or fallen off from a component in a controlled area until transported to a waste disposal site.
- ☐ Section 4.02(a)(4)(E) Failure to transport all ACM removed or fallen off from a component more than 50 feet above ground via dust-tight chutes/containers.
- ☐ Section 4.02(a)(5) Failure to contain in leak-tight wrapping, and properly label wetted ACM components removed as units or sections.
- ☐ Section 4.02(a)(6)(A) Failure to maintain local exhaust ventilation and collection systems on asbestos projects to ensure the integrity of the system.
- ☐ Section 4.02(a)(7) Failure to equip vacuum systems or local exhaust ventilation and collection systems with a HEPA filter, maintained in good working order.
- ☐ Section 4.02(c) Failure to remove all ACM before demolition of any building, structure, vessel or portion thereof.
- ☐ Section 4.03(a)(1)(B) Failure to seal all wetted Asbestos-Containing Waste Material (ACWM) in leak-tight wrapping to ensure it remains adequately wet when deposited at a waste disposal site.
- ☐ Section 4.03(a)(1)(C) Failure to label each container of ACWM with the collection date, name of generator, supervisor name, job address and asbestos warning signs.
- ☐ Section 4.03(a)(2) Failure to deposit all ACWM within 10-calendar days after collection for disposal at an approved waste disposal site.

- ☐ Section 4.03(a) Written notification prior to asbestos project start requirement
- 4.05(a) certified workers required. 4.05(b)(4) wet methods.
- ☐ Section 4.05(b)(7) ACM to be sealed in leak tight containers.
- 4.07(a) Disposal required within 10 days.

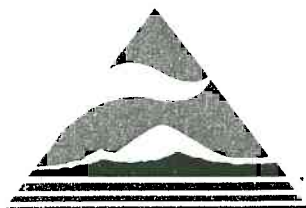
FACTS ALLEGED TO CONSTITUTE A VIOLATION Causing or allowing the removal of approximately 288 SF. of asbestos transite panels without a notification, without using certified workers, failure to wet the ACM, failure to seal in leak tight containers and failure to dispose of within 10 days at 3801 E. Marginal Wy So.

CORRECTIVE ACTION ORDER

Under the provisions of Section 3.09 of Regulation I and RCW 70.94.211 you are ordered to submit a written report within ten (10) days of receipt of this Notice describing the necessary corrective action you have taken or propose to take, including a schedule, to achieve continuous compliance with the regulations, and take the following necessary corrective action:

Hire a certified contractor to properly handle & dispose of the panels in compliance with Reg. III art. 4.

AGCS2M001019



PUGET SOUND AIR POLLUTION CONTROL AGENCY
KING COUNTY ▲ KITSAP COUNTY ▲ PIERCE COUNTY ▲ SNOHOMISH COUNTY

June 12, 1996

RECEIVED
JUN 13 1996
AGENCY-LEAD

Ash Grove Cement Company
c/o Edwin Pierce, Registered Agent
3801 East Marginal Way South
Seattle, WA 98134-1147

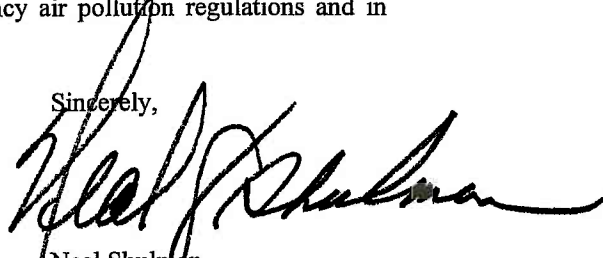
Dear Mr. Pierce:

Ash Grove Cement Company
Notice and Order of Civil Penalty No. 8352

This Agency wishes to acknowledge and thank you check #4079, which was received by this Agency on June 7, 1996. The funds (\$2,000.00) from this check, when deposited to the Agency, are accepted in full payment of Notice and Order of Civil Penalty No. 8352.

Thank you for your action to ensure compliance with Agency air pollution regulations and in joining with this Agency in efforts to achieve cleaner air.

Sincerely,



Neal Shulman
Manager - Inspection

NJS:kes

Enclosure

cc: Laurie Halvorson Agency Counsel
Accounting
Rosemary Busterna, Lead Air Pollution Inspector
Elizabeth Gilpin, Air Pollution Inspector

Dennis J. McLerran, Air Pollution Control Officer

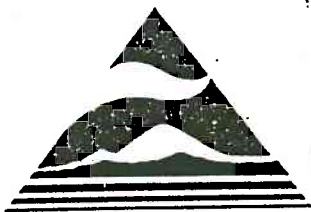
B O A R D O F D I R E C T O R S

Chairman: Win Granlund, Commissioner, Kitsap County
Janet Chalupnik, Member at Large

Lynn S. Horton, Mayor, Bremerton
R.C. Johnson, Councilman, Snohomish County

Harold G. Moss, Mayor, Tacoma
Norman B. Rice, Mayor, Seattle

AGCS2M001020



PUGET SOUND AIR POLLUTION CONTROL AGENCY
KING COUNTY ▲ KITSAP COUNTY ▲ PIERCE COUNTY ▲ SNOHOMISH COUNTY

May 20, 1996

RECEIVED

MAY 21 1996

Certified Mail No. Z 704 779 399

Ash Grove Cement Company
c/o Edwin S. Pierce, Reg. Agent
3801 East Marginal Way South
Seattle, WA 98134-1147

AGCW-SEATTLE

*Please Pay
\$2,000
[Signature]
6/3/96*

Dear Mr. Pierce:

Ash Grove Cement Company - Civil Penalty # 8352
Consent Order/Assurance of Discontinuance

Enclosed is a Civil Penalty in the amount of \$2,000.00 for Notice of Violation No. 4-2346. This Notice of Violation was issued as a result of the removal or encapsulation of asbestos materials at 3801 E. Marginal Way South in Seattle, Washington.

We propose to settle this penalty by the terms set out in the enclosed CONSENT ORDER AND ASSURANCE OF DISCONTINUANCE. We agree to suspend \$1,000.00 of the penalty if you do not violate the terms of the Consent Order for two (2) years and you pay the remaining \$1,000.00 of the penalty.

If this CONSENT ORDER AND ASSURANCE OF DISCONTINUANCE is acceptable to you, please sign and return the order and remit the \$1,000.00 penalty to us within thirty (30) days of receipt of this order. If you would like to discuss this offer or propose a different settlement, please call me at 689-4078.

Sincerely,

[Signature]
Neal J. Shulman
Manager - Inspection

lh

Enclosures
Case #9600650

Dennis J. McLerran, Air Pollution Control Officer

BOARD OF DIRECTORS

Chairman: Win Granlund, Commissioner, Kitsap County

Lynn S. Horton, Mayor, Bremerton

Env. Exp
Harold G. Moss, Mayor, Tacoma
Norman R. Rice, Mayor, Seattle

AGCS2M001021

ASH GROVE CEMENT COMPANY
3801 E. MARGINAL WAY SOUTH (206) 623-5596
SEATTLE, WA 98134

4079

June 5 19 96

19-2/1250

Y TO THE
ORDER OF

Puget Sound Air Pollution Control Agency

\$ 2,000-00-

Two Thousand And 00/00-----

DOLLARS

TWO SIGNATURES REQUIRED



Industrial Branch 030502
2764 First Ave. S.
Seattle, WA 98134

CASC

Henry Lindbeck
NON-NEGOTIABLE

⑈004079⑈ ⑆125000024⑆ 7443 104⑈

ASH GROVE CEMENT COMPANY
SEATTLE, WA 98134

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW
IF NOT CORRECT, PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED

DATE	DESCRIPTION	AMOUNT
6/1/96	PSAPCA/Case #9600650	\$2,000

A2

07606695 07-60-6695 NON-NEGOTIABLE

ASH GROVE CEMENT COMPANY



"WESTERN REGION"

June 3, 1996

Mr. Neal Shulman,
Puget Sound Air Pollution Control Agency
110 Union Street, Suite 500 Seattle, WA. 98101-2038

Re: Notice and Order of Civil Penalty No. 8352

Dear Mr. Shulman;

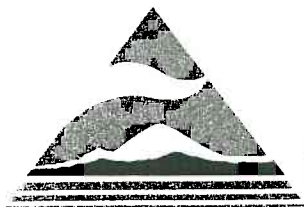
Ash Grove appreciates PSAPCA's consideration in this matter and is prepared to pay the full \$2,000. We prefer to bring this matter to a close rather than extending it through the proposed Assurance of Discontinuance.

Yours truly,

Gerald J. Brown
Manager Safety and Environment

Copy: Henrik Voldbaek
Nate Fernow
Doug Hale

AGCS2M001023



PUGET SOUND AIR POLLUTION CONTROL AGENCY
KING COUNTY KITSAP COUNTY PIERCE COUNTY SNOHOMISH COUNTY

May 20, 1996

RECEIVED

MAY 21 1996

AGCW-SEATTLE

Certified Mail No. Z 704 779 399

Ash Grove Cement Company
c/o Edwin S. Pierce, Reg. Agent
3801 East Marginal Way South
Seattle, WA 98134-1147

Dear Mr. Pierce:


Ash Grove Cement Company - Civil Penalty # 8352
Consent Order/Assurance of Discontinuance

Enclosed is a Civil Penalty in the amount of \$2,000.00 for Notice of Violation No. 4-2346. This Notice of Violation was issued as a result of the removal or encapsulation of asbestos materials at 3801 E. Marginal Way South in Seattle, Washington.

We propose to settle this penalty by the terms set out in the enclosed CONSENT ORDER AND ASSURANCE OF DISCONTINUANCE. We agree to suspend \$1,000.00 of the penalty if you do not violate the terms of the Consent Order for two (2) years and you pay the remaining \$1,000.00 of the penalty.

If this CONSENT ORDER AND ASSURANCE OF DISCONTINUANCE is acceptable to you, please sign and return the order and remit the \$1,000.00 penalty to us within thirty (30) days of receipt of this order. If you would like to discuss this offer or propose a different settlement, please call me at 689-4078.

Sincerely,


Neal J. Shulman
Manager - Inspection

lh

Enclosures
Case #9600650

Dennis J. McLerran, Air Pollution Control Officer

B O A R D O F D I R E C T O R S

Chairman: Win Granlund, Commissioner, Kitsap County
Janet Chalupnik, Member at Large

Lynn S. Horton, Mayor, Bremerton
R.C. Johnson, Councilman, Snohomish County

Harold G. Moss, Mayor, Tacoma
Norman B. Rice, Mayor, Seattle

AGCS2M001024

PUGET SOUND AIR POLLUTION CONTROL AGENCY)

a municipal corporation of the state of Washington)

110 Union Street, Suite 500)

Seattle, Washington 98101-2038)

VS)

ASH GROVE CEMENT COMPANY)

c/o Edwin S. Pierce, Registered Agent)

3801 East Marginal Way South)

Seattle, Washington 98134-1147)

NO. 8352

**NOTICE AND ORDER
OF CIVIL PENALTY**

You are hereby notified that, pursuant to Chapter 70.94 RCW and Notice of Violation No. 4-2346, a copy of which has been previously provided to you or your agent, you have violated Article 4 of Regulation III of the Puget Sound Air Pollution Control Agency in the following particulars:

On or about the 9th day of February 1996, you violated Article 4 of Regulation III by causing or allowing the removal of asbestos-containing materials at 3801 East Marginal Way South in the city of Seattle, King County, state of Washington, and by failing to comply with the following section(s) of Article 4 of Regulation III:

- 4.03(a) Failure to submit a complete notification prior to performing an asbestos or demolition project.
- 4.05(a) Failure to have trained and certified workers in accordance with the standards established by the Washington State Department of Labor & Industries, the federal Occupational Safety & Health Administration, or the United States Environmental Protection Agency (whichever agency has jurisdiction).
- 4.05(b)(4) Failure to continuously coat nonabsorbent material with a liquid wetting agent prior to, during, and after removal, to assure it remains wet when sealed.
- 4.05(b)(7) Failure to keep ACWM wet, and seal while still wet in leak-tight containers, as soon as possible, but no later than the end of each work shift.
- 4.07(a) Failure to deposit all ACWM for disposal at an authorized waste disposal site, within 10 calendar days after removal.

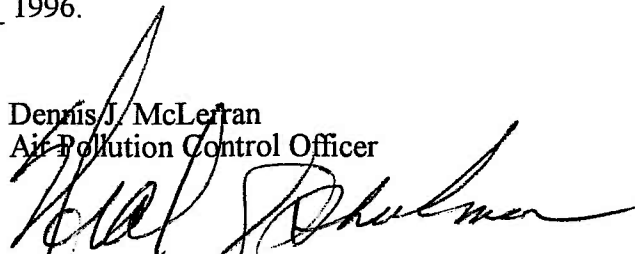
For the violation(s) that occurred on or about the 9th day of February 1996, wherein you caused or allowed the removal of asbestos-containing materials, in violation of Article 4 of Regulation III of the Puget Sound Air Pollution Control Agency, a penalty is assessed against you in the amount of two thousand dollars (\$2,000.00).

The full amount of this penalty is due and payable within thirty (30) days of receipt of this notice, unless within such time a request for hearing is filed. (See reverse side for both mitigation procedures and appeal procedures.)

In the event the full amount of this penalty is not paid on or before thirty (30) days of receipt of this notice, or a request for mitigation has not been made to this Agency, or a request for hearing has not been made to the Pollution Control Hearings Board of Washington and the Air Pollution Control Officer, action will be commenced in court to recover such penalty.

Dated this 20th day of May 1996.

Dennis J. McLerran
Air Pollution Control Officer


by Neal J. Shulman
Manager - Inspection

Certified Mail No. Z 704 779 399

AGCS2M001025

STATE OF WASHINGTON

ASH GROVE CEMENT COMPANY

VS

PUGET SOUND AIR POLLUTION CONTROL AGENCY

CIVIL PENALTY NO. 8352

CONSENT ORDER AND
ASSURANCE OF
DISCONTINUANCE

Puget Sound Air Pollution Control Agency (PSAPCA) issued and served Notice and Order of Civil Penalty No. 8352 dated the 20th day of May 1996 in the amount of \$2,000.00 to Ash Grove Cement Company. This penalty assessment was based upon violations of Article 4 of Regulation III in the following particulars:

On or about February 9, 1996, in King County, state of Washington, Ash Grove Cement Company violated Sections 4.03(a), 4.05(a), 4.05(b)(4), 4.05(b)(7), and 4.07(a) of Article 4, Regulation III, by improper handling of asbestos-containing material at 3801 East Marginal Way South in Seattle, Washington.

Pursuant to RCW 70.94.435, Ash Grove Cement Company does hereby agree to an assurance of discontinuance from violation of Sections 4.03(a), 4.05(a), 4.05(b)(4), 4.05(b)(7), and 4.07(a) of Regulation III and does agree to pay \$1,000.00 of Civil Penalty No. 8352.

Ash Grove Cement Company further agrees to:

- hire a certified AHERA Building Inspector to conduct a facility-wide asbestos survey, and
- develop and implement an asbestos management plan administered in-house by a manager who attends an 8-hour asbestos awareness training class.

PSAPCA accepts this assurance of discontinuance and does hereby suspend \$1,000.00 of Civil Penalty No. 8352 if no unexcused violations of Section 4.03(a), 4.05(a), 4.05(b)(4), 4.05(b)(7), or 4.07(a) of Regulation III occur within two (2) years and if conditions set forth are met. If any such unexcused violations occur within this two-year period or if conditions set forth are not met, the suspended amount of \$1,000.00 is immediately due and payable.

Failure to perform the terms of this order by Ash Grove Cement Company shall constitute grounds for PSAPCA to seek injunctive or other relief from Superior Court.

Dated this _____ day of _____ 1996.

Ash Grove Cement Company

Dennis J. McLerran
Air Pollution Control Officer

ASH GROVE CEMENT COMPANY



"WESTERN REGION"

3801 EAST MARGINAL WAY, SOUTH
SEATTLE, WA 98134
PLANT OFFICE: (206) 623-5596
FAX: (206) 623-5355

TELECOPIER TRANSMISSION REPORT

DATE: 2/21/96
TO: Elizabeth Gilpin 343-7522
COMPANY: PSAPCA
FROM: G J Brown
SUBJECT: Per your request
NUMBER OF PAGES (including cover):

- 1 MSDS + Info on alternate panels to follow:
2. Contractor Info:

Crest Industrial
Bryan Rutherford
(360) 424 8700

- 3 No other information located at this time.

Please Call if you have questions

9



FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies Inc.

1906 Oak St. Torrance, CA 90501
Telephone (310) 328-1752
Fax No. (310) 328-5646

HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

TELECOPIER COVER SHEET

Total number of pages, including this cover sheet 5

Destination: ASHGROVE CEMENT CO From: KAREN
Fax Number: 206-623-5355 Date: 2/12/96
Attn.: JERRY Time: P.M.

PLEASE ADVISE IMMEDIATELY IF THE FOLLOWING IS UNREADABLE.

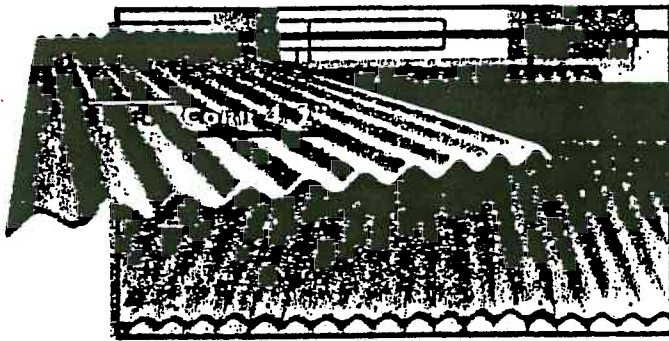
PER YOUR REQUEST, MSDS ON SUPRA-CORR 4.2, I HAVE ALSO
INCLUDED A DATA SHEET.

ANY QUESTIONS, PLEASE CALL.

SUPRA-CORR 4.2"[®]

SUPRA-CLAD TT[®]

**THE ONLY CLADDING ALTERNATIVE FOR
CORROSIVE AND FIRE RESISTANT ENVIRONMENTS**



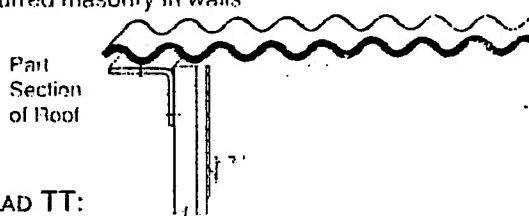
DESCRIPTION

Supra-Corr 4.2" and Supra-Clad TT wall cladding and roofing products are manufactured with SupraCem technology, using asbestos-free, fiber-reinforced cement consisting of Portland cement, cellulose fibers, silica, water and filler. Under intense pressure, durable, corrugated profile sheets are formed. These sheets, of natural light gray color, are then cut to size and autoclaved to produce high early strength, stability and uniformity.

These building products cover large wall and/or roofing areas rapidly and economically. Supra-Corr 4.2" and Supra-Clad TT feature the identical dimensions of the former, widely used asbestos-cement sheets sold under such trade names as 4.2", Transite[®], Corrugated 400[®], Transite[®] and Trafford Tile[®].

SUPRA-CORR 4.2":

Supra-Corr 4.2" sheets are applied directly over the skeleton framework of roof structures, and over metal framing, wood framing or turred masonry in walls.

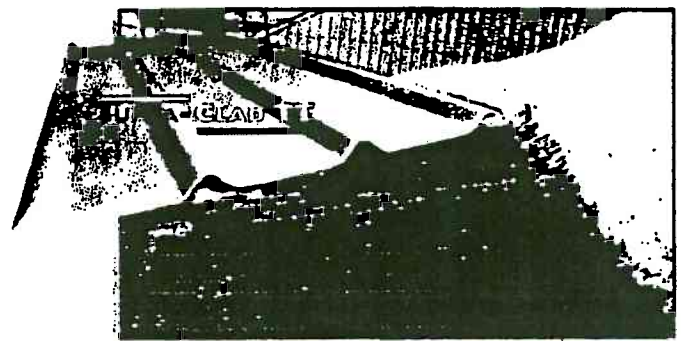


SUPRA-CLAD TT:

Supra-Clad TT sheets are normally applied directly over steel or wood horizontal supports or girts as well as cladding material.



To accommodate the installation of both these building products, corner rolls are also available through Cemfort for



RECOMMENDED USES

GENERAL

- For a wide variety of exterior industrial, commercial and agricultural applications, particularly those requiring non combustible construction.
- New construction or renovation, including plug in replacement for previously widely used asbestos-cement panels.
- Typical building applications include: pulp and paper mills, chemical, paint and fertilizer plants, agricultural buildings, mining facilities, cooling towers, and similar facilities subject to high humidity or other caustic environments.

SUPRA-CORR 4.2"

- Cladding (single skin uninsulated or insulated wall system or alternative outer cladding for insulated industrial curtain wall systems.)
- Sloping roofs.

SUPRA-CLAD TT:

- Smoother profile and lighter weight makes Supra-Clad TT well suited for the more economical yet architecturally appealing cladding applications.

LIMITATIONS

- Do not use Supra-Corr 4.2" sheets on roof slopes less than 3" in 12" (15° pitch) where subject to foot traffic or platform loads.
- Do not use Supra-Corr 4.2" or Supra-Clad TT sheets as a base of walls exposed to impact or on curved surfaces where proper jointing and a flat bearing surface cannot be provided.
- Contact Cemfort Inc. for guidance if sheets will be subjected to the following: prolonged contact with hot condensed water, salt solution from sulphate, magnesium-salt, iron chloride, sugar solution, vegetable oil and fat, highly concentrated acids and bases in combination with moisture.

PRODUCT ADVANTAGES

- **Non-Combustible** - Meets FMRC approval requirements.
- **Corrosion-Free** - will not deteriorate when exposed to sun, cold, rain, wind, dampness or dryness, salt spray or acid contaminated atmosphere.
- **Light-Weight** - high strength to weight ratio - Economically transported and erected, easily cut or drilled with power tools on site.
- **Maintenance Free** - Never needs painting - however when painting is desired, an alkali-resistant paint is recommended.
- **Freeze-Thaw Resistant** - unaffected under normal exposure conditions.
- **Dimensional Stability** - manufactured to the strictest tolerances.
- **Structural Strength** - reinforced with cellulose fibre, with Portland Cement binder. Autoclaved for accelerated curing.
- **Rodent, Vermin and Fungi-Resistant**

SIZES

MEASURE	SUPRA-CORR 4.2"	SUPRA-CLAD TT
Standard Length	8', 10', 12'	8', 10', 12'
Overall Width	42"	43"
Effective Cover Width	37.8"	40.0"
Material Thickness	9.5 mm (3/8")	7.5 mm (9/32")
No. of Corrugations	10	4
Corrugation Centers	4.2" o/c	13 - 1/3" o/c
Overall Depth	1 - 1/2"	2"

STANDARDS, TESTS & APPROVALS

Surface Burning Characteristics
(ASTM E-84 and UL/CAN4-S102M)

- Flame Spread - 0
- Smoke Developed - 0
- Max. Continuous Temperature - 350° F

Meets FMRC Windstorm Classification of I-90 and Non-Combustible Classification.

INSTALLATION

Although any reputable building contractor can satisfactorily apply Cemfort wall cladding and roofing materials, many contractors specialize in working with these products. Names of recommended erectors are available upon request. Every purchase of Supra-Corr 4.2" and Supra-Clad TT materials includes "Application Instructions".

AVAILABILITY & COST

These sheets are available throughout North America, usually shipped from stock. In the U.S.A., Supra-Corr 4.2" is available exclusively through Supradur Manufacturing Corporation. Contact Supradur for a list of distributors and/or budgetary

PHYSICAL PROPERTIES

PROPERTY	ASTM TEST	SUPRA-CORR. 4.2"	SUPRA-CLAD TT
Modulus of Rupture (dry average)	-	4000 lbs/in ²	4000 lbs/in ²
Bending Moment	-	425 ft lb/ft	-
• Equilibrium	-	350 ft lb/ft	-
• Wet	-	-	-
Flexural Strength (Positive 30" Span)	-	-	2600 lbf
Coefficient of Thermal Conductivity (k)	C-518	1.65 Btu in/ft ² °F	1.65 Btu in/ft ² °F
Coefficient of Thermal Movement (68°F to 212°F)	C-591	4.85 x 10 ⁻⁶ in/in °F	4.85 x 10 ⁻⁶ in/in °F
Moisture Movement	-	-	-
• Normal to Saturation	D-1037	0.0167 in/ft.	0.0167 in/ft.
• Normal to dry	-	0.0278 in/ft.	0.0278 in/ft.
Density Dry (Nominal)	-	95 lbs/ft ³	95 lbs/ft ³
Moisture Content Normal	D-1037	10%	10%
Water Absorption	C-1185	25%	25%

These tests, performed by Warnock-Hersey Inc., are available upon request

MAINTENANCE

Not normally required. Sheets may exhibit some color variation due to different atmospheric and environmental conditions. If cleaning is necessary, contact Cemfort Inc. for recommendations.

WARRANTY

Normal one year construction warranty against faulty materials. Contact Cemfort Inc. for complete warranty information.

TECHNICAL SERVICES

A full range of services are available upon request (i.e. design, specifications, installation assistance, etc.). Contact Cemfort Inc. at 1-800-565-FORT.

RELATED REFERENCES

- Guide Specifications (3-Part Section Format)
- CSI Spec-Data sheet
- Load/Span and Load/Deflection tables
- Application instructions
- Architectural details (hard copy or disk)
- Literature on other Cemfort fiber-reinforced cement products i.e. "Structural Flat Sheets" and "Roof Decking"



CEMFORT INC.

Supradur[®]

Distributed by:

FOUNDRY SERVICE & SUPPLIES, INC.
1906 OAK STREET

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration



OMB No 1218-0074

Section I

Manufacturer's Name

Supradur Canada (1988) Inc.

(514) 253-6400

Emergency Telephone Number

Address (Number, Street, City, State, and ZIP Code).

5600 Hochelaga E., Montreal, Quebec

H1N 1W1

Chemical Name
and SynonymsTrade Name
and Synonyms

SupraCem Flat and Profile Bldg.

Chemical
Family

Formula

Panels

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	CAS No.	% (optional)
Ordinary Portland Cement	N/A	N/A	65997-15-1	
Natural Organic Fibers	N/A	N/A	65996-61-4	
Silicon Dioxide	0.1 mg/m ³ TWA	0.1mg/m ³	14808-60-7	
Wolastonite	N/A	N/A	13983-17-0	
Silica fume	N/A	N/A	112945-52-5	

Section III - Physical Data

Boiling Point (°F)	N/A	Specific Gravity (H ₂ O=1)	N/A
Vapor Pressure (mm Hg)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate	N/A
Solubility in Water	N/A		N/A

Appearance and Odor

Grey sheet - no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Smoke Developed - 0	Flammable Limits	LC ₅₀	UC ₅₀
ASTM E84	Flame Spread - 0	N/A	N/A	N/A
Extinguishing Media	N/A			

Special Fire Fighting Procedures

N/A

Unusual Fire and Explosion Hazards

Section V - Health Hazard Data

Threshold Limit Value Silicon Dioxide - 0.1 mg/m^3 - Use or handling of these products does not create dust above the TLV or PEL.

Effects of Overexposure Prolonged exposure to dust above the TLV, may cause respiratory illness. No known health hazard exists with the use of these products.

Emergency First Aid Procedures
N/A

Section VI - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable		
	xx		N/A

Incompatibility (Materials to Avoid)

Hazardous Decomposition Products
None

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur		
		xx	N/A

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Vacuum clean dust created during fabrication. If sweeping is necessary, use a dust suppressant.

Waste Disposal Method

Dispose in landfill. Comply with all local, state and federal regulations. Wastes generated during application demolition, breakage or spillage are NOT hazardous wastes

Section VIII - Special Protection Information

Respiratory Protection As appropriate - As with any product which creates dust during fabrication or application, care should be taken to avoid excessive inhalation of dust.

Ventilation	Local Exhaust	As appropriate	Special
	Mechanical (General)	As appropriate	Other

Protective Gloves	No	Eye Protection	Yes
Other Protective Equipment	None		

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing Avoid creating dust. Store material on a flat solid base.

Other Precautions Use good housekeeping techniques. The information and recommendations contained herein are based upon data believed to be accurate.

Clayton Environmental Consultants LABEAX

Client: Puget Sound Air Pollution Control Agency

Location: Ash Grove Cement Co., 3801 E Marginal Way, Seattle

Log #16553

ANALYZED BY Crystal Wright

ON 02/09/96

Job / PO #11339-1B.

SAMPLE #11339-1B		SAMPLE LOCATION: None Given			
SOURCE: Siding					
Asbestos Containing		HOMOGENEOUS			
Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
Chrysotile	15			Mineral Filler & Binder	85
		Description: Gray hard coarse chunk with fibers			
Note:					

Post-it Fax Note	7671	Date	2/9/96
To	Melissa	From	Clayton
Co./Dept.		Co.	
Phone #	343-7522	Phone #	
Fax #		Fax #	

PSAPCA FEB 9 1996

PRELIMINARY REPORT

Laboratory Data Sheet is for lab use and faxing only. The final report will follow in the mail.

Filed by: W. A. G. S.

Project Case No. 9601089
Agency Use Only

110 Union Street, Suite 500, Seattle, WA 98101-2038
689-4073

NOTIFICATION

PSAPCA FEB 13 1996

☒ Asbestos Removal Only

☐ Asbestos Removal & Demolition

☐ Demolition, No Asbestos Removal

A. Property Owner: ASH GROVE CEMENT
Mailing Address: 3801 E MARGINAL WAY SO
City: SEATTLE State: WA Zip: 98134

B. Asbestos Contractor: AC AND S INC
Mailing Address: 25528 74th AVE SO.
City: KENT State: WA Zip: 98032
Demolition Contractor: N/A
Owner/CEO: IREX CORP.
Phone: 859-1073
Fax: 854-1436
Contractor's Job #: 1750564

C. Site Address: 3801 E MARGINAL WAY SO.
City: SEATTLE Zip: 98134

D. Asbestos Survey Date Conducted: _____ Number of Structures Surveyed: _____ Asbestos Found
☐ Yes
☐ No
AHERA Building Inspector: _____
Certification No.: _____ Expiration Date: _____ State: _____

E. Demolition Start Date: ~~2-26-96~~ No. of Structures: _____
1. ☐ Demolition by Fire (attach training fire permit)
2. ☐ Ordered Demolition (attach copy of Order)

F. Asbestos Project Start Date: 2-26-96 Completion Date: 3-8-96 Work Days: (M T W Th F) Sa Su
Type of Material: ☐ Fireproofing ☐ Vinyl Paper Back ☐ CAB ☐ P.C. Ceiling ☐ Boiler Insulation ☐ Vinyl Asbestos Tile
☐ Duct Paper ☐ Mag. Pipe Insulation ☐ Air Cell ☐ CA Pipe ☐ Other: _____
Total Qty. to be Removed: 620 Square Ft. Linear Ft. _____
Will all asbestos from the structure(s) be removed at completion of this project? ☐ Yes ☒ No

G. Asbestos/Demolition Project Categories:	Notification Requirements	Project Fee (Non-Refundable)
1. <input type="checkbox"/> Owner-Occupied Residential Asbestos Removal Project		
<input type="checkbox"/> Owner-Occupied Residential Asbestos Removal & Demolition Project		
<input type="checkbox"/> Owner-Occupied Residential Demolition Project, No Asbestos Removal	Prior Notice	\$25
2. <input type="checkbox"/> All Other Demolitions With No Asbestos Removal Project	10 Days	\$125
3. <input type="checkbox"/> ≥ 10 - 259 linear feet or ≥ 48 - 159 square feet (see back)	3 Days	\$125
4. <input checked="" type="checkbox"/> 260 - 999 linear feet or 160 - 4,999 square feet	10 Days	\$250
5. <input type="checkbox"/> 1,000 - 9,999 linear feet or 5,000 - 49,999 square feet	10 Days	\$500
6. <input type="checkbox"/> 10,000+ linear feet or 50,000+ square feet	10 Days	\$1,000
7. <input type="checkbox"/> Emergency Asbestos Project or <input type="checkbox"/> Emergency Demolition Project	Prior Notice	Equal to Twice Project Fee
8. <input type="checkbox"/> Alternate Means of Compliance (friable materials) or <input type="checkbox"/> Demolitions	10-Day Review Period	Equal to Twice Project Fee
9. <input type="checkbox"/> Alternate Means of Compliance (nonfriable materials)	Concurrent with Project	Equal to Twice Project Fee

I hereby certify that the information contained in this notification & supplemental data described herein is, to the best of my knowledge, accurate & complete.

PSAPCA

Donald L. Plake

AC AND S INC

2-13-96

Chris M...

ASBESTOS CONTRACTORS/DEMO CONTRACTORS APPROVED FOR BILLING

Asbestos Contractors

Code	Company	Telephone	Fax
369	A.A. Contractors, Inc.	(206) 435-7400	(206) 435-7246
100209	AC & S, Inc.	859-1073	854-1436
720	Affordable Abatement, Inc.	485-4828	487-6166
1857	All Environmental, Inc.	(206) 589-2505	(206) 589-1924
327	Alpha Insulation, Inc.	774-3906	672-9120
532	Bartells Materials Management	228-4111	228-8807
9800136	City of Seattle (Joe Zdenek)	684-5422	386-9030
698	Crown Delta, Inc.	763-5232	763-9490
477	D & G Mechanical Insulation, Inc.	(206) 863-3100	(206) 863-5990
100135	Dept. of Corrections (D.O.C./ Asbestos Program)	(360) 586-8827	(360) 586-8952
297	Eastwood Tachon, Inc.	(206) 535-5754	(206) 537-6219
102647	Evergreen Environmental, Inc.	(360) 533-6141	(360) 538-0521
31	FS & GS Services, Inc.	848-3301	(206) 848-3308
403	HLD Construction, Inc.	(206) 472-4489	(206) 472-4521
805	I.R.S. Environmental, Inc.	(509) 927-7867	(509) 928-3933
442	K C B, Inc.	(206) 830-5022	(206) 830-5020
873	King County Facilities Div.	296-0116	296-0186
100184	Lincoln Cristi, Inc.	737-2585	737-2621
194	Long Services, Inc.	763-8050	768-9580
9800071	Northwest Abatement	(206) 588-0440	
504	Partners Construction	575-7429	852-7936
518	Performance Abatement Services (P.A.S.)	467-8733	623-2091
749	Puget Sound Naval Shipyard	(360) 476-1896	(360) 476-8477
509	Restec Contractors, Inc.	867-1981	869-0683
108	Rona Company	843-2906	(206) 843-1681
9800300	Seattle Housing Authority	615-3381	
100164	Thermatech, Inc.	562-4556	643-4335
302	TLH Abatement, Inc.	523-4441	522-4099
778	Welch Enterprises	(360) 336-9578	(360) 336-9579

Demo Contractors

100103	DDI Construction	(206) 272-7280	(206) 272-3240
489	McFarland Wrecking	721-5777	763-1690
618	William Dickson Company	(206) 472-4489	(206) 472-4521
162	R.W. Rhine, Inc.	(206) 537-5852	(206) 531-9548